

# What's New in DOE Order 450.1A?

A Sample Briefing Prepared by  
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# Overview

- EO 13423 Requirements
- New Requirements for EMS
- Increased Scope of EMS
- Coordinating Implementation Within DOE
- New Dates and Deadlines
- Integration with ISM System

# Executive Order 13423

DOE O 450.1A *Environmental Protection Program* incorporates new requirements of:

- Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management* (January 2007), and
- *Instructions for Implementing E.O. 13423* (Council on Environmental Quality, March 2007)

# EMS Must Meet New Requirements

- EMS must “reflect the EMS elements and framework found in ISO 14001:2004” [§ 4.b.(1)]
- EMS must have  
“a formal audit by a qualified party outside the control or scope of the EMS”
  - before declaring initial implementation of the EMS [§ 4.d.(1)-(2)]
  - every three years [§ 4.d.(3)]

# EMS has Increased Scope

EO 13423 requires the Department to implement Sustainable Practices (and establishes associated goals) for:

- energy efficiency, greenhouse gas emissions avoidance or reduction, and petroleum products use reduction
- renewable energy, including bio-energy
- water conservation
- acquisition (environmentally preferable purchasing)
- pollution and waste prevention and recycling

# EMS has Increased Scope (cont)

- reduction or elimination of acquisition and use of toxic or hazardous chemicals
- high performance construction, lease, operation, and maintenance of buildings
- vehicle fleet management
- electronic equipment management

*These should be reflected in the EMS.*

# EMS has Increased Scope (cont)

EO 13423 establishes additional requirements for the Department. These include:

- Environmental Management Systems (EMSs) are to serve as the primary management approach for addressing the environmental aspects of internal agency operations and activities, including the environmental aspects of energy and transportation functions. [§4.c.]

## EMS has Increased Scope (cont)

- EMSs shall include specified compliance management elements, including an environmental compliance audit program that identifies compliance needs and possible root causes of non-compliance [§4.b.(4); CRD §1.a.(5
- A separate Compliance Management Plan *is not* required.



# Coordinating Implementation Within DOE

Requirements from E.O. 13423 are addressed in both DOE O 450.1A, and DOE O 430.2B

## DOE O 450.1A *Environmental Management Program*

- establishes EMS requirements
- establishes goals and addresses specific sustainable environmental practices including
  - environmentally preferable purchasing
  - pollution prevention and waste reduction
  - post-consumer material recycling
  - toxic or hazardous chemicals and materials use and release reduction
  - life-cycle environmental management of electronic assets

# Coordinating Implementation Within DOE (cont)

DOE O 430.2B *Departmental Energy, Renewable Energy and Transportation Management* (revision issued February 2008)

- addresses key elements of the Department's TEAM Initiative, and
- establishes goals and requirements for
  - energy
  - fleet
  - water conservation
  - sustainable design/high performance buildings

DOE O 430.2B states that these programs are to be implemented through the site EMS [§4.1.]

# New Dates and Deadlines

- DOE managers are to declare DOE EMSs in conformance with the new requirements by June 30, 2009.

This declaration must reflect a formal EMS audit conducted within the previous three years “by a qualified party outside the scope of the EMS.”  
[§ 4.d.(2); 5.c.(1); 5.d.(1)]

- Where DOE determines that a new EMS is needed for a (new or reorganized) facility/organization, DOE will establish the date for implementation in consultation with the Federal Environmental Executive. [§5.d.(6)]

# Integration of EMS with ISM Systems

- DOE field and program offices are required to incorporate specified EMS elements into their existing Integrated Safety Management (ISM) Systems.  
[§5.d.(2),(8) §5.c.(2),(4),(5)]  
These offices *are not* required to implement EMSs.
- DOE field and program offices are required to incorporate in their ISM Systems appropriate performance objectives, measures and commitments to support compliance with applicable environmental protection requirements. [§5.c.(1); §5.d.(1)]  
A separate Compliance Management Plan *is not* required.

# Integration of EMS with ISM Systems (cont)

Insofar as possible EMS requirements are linked to existing requirements in DOE M 450.4 *ISMS Manual*.

## **Existing req'ts in DOE M 450.4**

- DOE field offices and DOE program offices are to implement ISM Systems
- DOE offices are to set annual performance expectations and performance objectives
- DOE offices are to conduct annual ISMS effectiveness reviews

## **Related req'ts in DOE O 450.1A**

- DOE field offices and DOE program offices are to incorporate specified elements in their ISM Systems
- DOE offices are to identify significant aspects; establish goals and measurable targets [*§ 4.e.*]
- DOE offices are to address implementation of DOE O 450.1A requirements in the annual reviews [*§5.c.(2); §5.d.(2)*]

# In Conclusion

- DOE O 450.1 may require changes in our existing Environmental Management System
  - To reflect the elements and framework of ISO 14001
  - To address increased scope (energy and fleet)
- We need to declare our EMS “fully implemented” in conformance with DOE O 450.1A by June 30, 2009.

This includes an “external” audit by a qualified party outside the scope of the EMS.
- DOE O 450.1 may require changes in our existing ISM system